Small Business Innovation Research/Small Business Tech Transfer

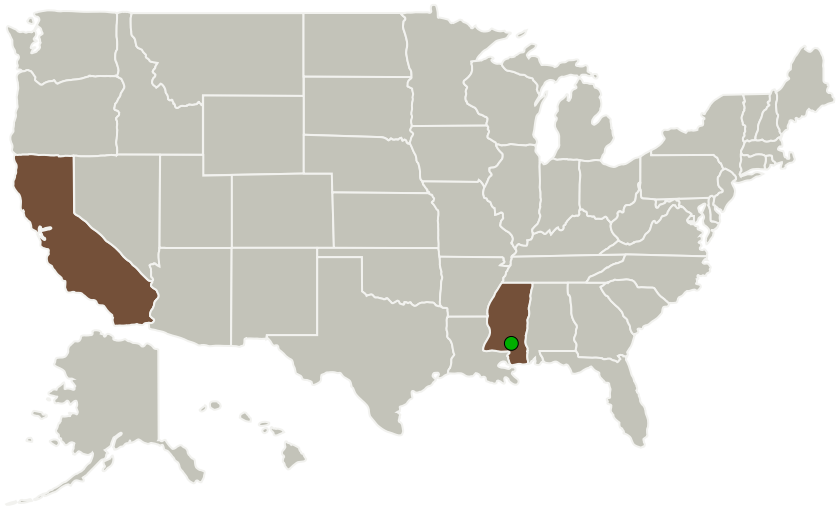
Advanced Propulsion Systems Ground Test Technology, Phase I

Completed Technology Project (2017 - 2017)

Project Introduction

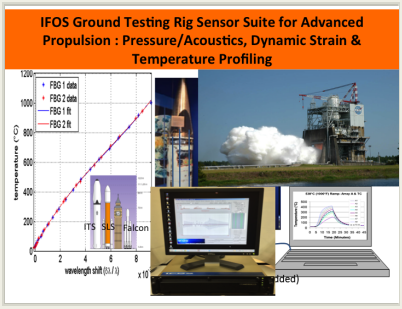
IFOS proposes to develop a test rig sensor suite to measure pressures/acoustics, static and dynamic strains and tempersures for advanced propulsion systems such as that used for NASA's Space Launch System (SLS) and SpaceX's proposed Interplanetary Transport System (ITS). IFOS will leverage off its experience in the turbine engine industry and harsh environment sensors.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Intelligent Fiber Optic Systems Corporation	Lead Organization	Industry	Santa Clara, California
Stennis Space Center(SSC)	Supporting Organization	NASA Center	Stennis Space Center, Mississippi

Primary U.S. Work Locations	
California	Mississippi



Advanced Propulsion Systems Ground Test Technology, Phase I Briefing Chart Image

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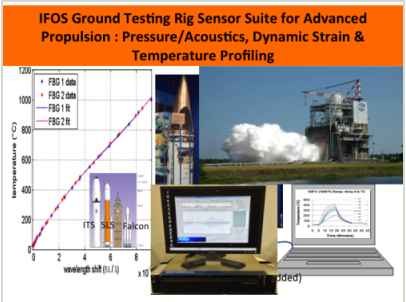
Images



Briefing Chart Image
Advanced Propulsion Systems Ground Test Technology, Phase I Briefing Chart Image *(https://techport.nasa.gov/image/128492)*

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Intelligent Fiber Optic Systems Corporation

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

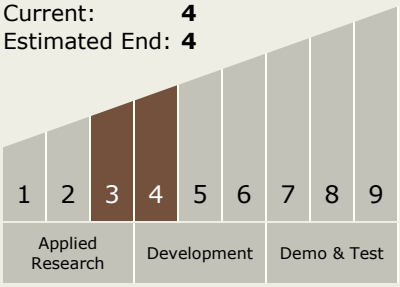
Carlos Torrez

Principal Investigator:

Richard J Black

Technology Maturity (TRL)

Start: **3**
Current: **4**
Estimated End: **4**



Advanced Propulsion Systems Ground Test Technology, Phase I

Completed Technology Project (2017 - 2017)

Technology Areas

Primary:

- TX13 Ground, Test, and Surface Systems
  - TX13.2 Test and Qualification
    - TX13.2.6 Advanced Life-Cycle Testing Techniques

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System